

Comparisons of Job Characteristics

Focus Occupation: Avionics Technicians (49-2091)

Associated Occupation: Maintenance and Repair Workers, General (49-9042)

Compare Knowledge

Compare Skills

Compare Abilities

Compare Detailed Work Activities

Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 36

Focus Occupation: Avionics Technicians (49-2091)

Associated Occupation: Maintenance and Repair Workers, General (49-9042)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Mechanical	6.8	19.3	9.6	<<	Extensive education and/or training may be required
Building and Construction	4.0	14.3	1.3	<<	Extensive education and/or training may be required
Public Safety and Security	6.9	12.0	5.0	<<	Extensive education and/or training may be required
Design	5.2	11.7	6.4	<<	Extensive education and/or training may be required
Engineering and Technology	5.7	10.3	13.0	>	Current knowledge level is likely sufficient
Physics	4.3	8.8	5.2	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 81

Focus Occupation: Avionics Technicians (49-2091)

Associated Occupation: Maintenance and Repair Workers, General (49-9042)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Equipment Maintenance	3.5	12.7	13.5	0	Current skill level may be sufficient
Repairing	3.4	12.3	13.9	>	Skill level is likely sufficient
Troubleshooting	4.5	10.0	13.8	>>	Skill level is likely more than sufficient
Quality Control Analysis	5.9	9.8	11.8	>	Skill level is likely sufficient
Equipment Selection	3.3	9.5	9.1	0	Current skill level may be sufficient
Installation	1.7	8.3	5.4	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities	Similarity of Focus Occupation to Associated Occupation: 79				
Focus Occupation: Avionics Technicians (49-2091) Associated Occupation: Maintenance and Repair Workers, General (49-9042)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Information Ordering	9.9	13.3	11.8	<	Some improvement in abilities may be required
Multilimb Coordination	6.0	11.8	7.4	<<	Extensive improvement in abilities may be required
Manual Dexterity	6.5	11.4	10.2	<	Some improvement in abilities may be required
Visualization	7.5	11.0	11.0	0	Current ability level may be sufficient
Static Strength	5.0	9.8	4.8	<<	Extensive improvement in abilities may be required
Extent Flexibility	4.8	9.2	5.2	<<	Extensive improvement in abilities may be required
Speed of Limb Movement	3.2	5.8	1.3	<<	Extensive improvement in abilities may be required
Gross Body Equilibrium	3.2	5.6	2.6	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common	Similarity of Focus Occupation to Associated Occupation: 81
Focus Occupation: Avionics Technicians (49-2091) Associated Occupation: Maintenance and Repair Workers, General (49-9042)	
Work Activities	Exclusivity of Activity
Fabricate, assemble, or disassemble manufactured products by hand	11
Install electrical fixtures or components	71
Install electronic equipment, components, or systems	62
Install or replace meters, regulators, or related measuring or control devices	66
Install/connect electrical equipment to power circuit	57
Perform safety inspections in industrial, manufacturing or repair setting	32
Read blueprints	10
Read schematics	34
Read technical drawings	7
Repair electronic components, equipment, or systems	74
Repair or adjust measuring or control devices	71
Repair or replace electrical wiring, circuits, fixtures, or equipment	49

Replace electronic components	63
Solder electrical or electronic connections or components	55
Test electrical/electronic wiring, equipment, systems or fixtures	54
Understand service or repair manuals	40
Understand technical operating, service or repair manuals	6
Use electrical or electronic test devices or equipment	40
Use hand or power tools	2
Use knowledge of metric system	39
Use precision tools in electronics repair	71
Use soldering equipment	44
Use voltmeter, ammeter, or ohmmeter	52

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 83

Focus Occupation: Avionics Technicians (49-2091)

Associated Occupation: Maintenance and Repair Workers, General (49-9042)

Tools and Technologies	Exclusivity
Computers	1
Content authoring and editing software	1
Cutting and crimping and punching tools	3
Electrical measuring and testing equipment	7
Forming tools	2
Holding and clamping tools	3
Industry specific software	1
Ladders and scaffolding	6
Length and thickness and distance measuring instruments	2
Lifting equipment and accessories	3
Measuring and layout tools	3
Power tools	2
Respiratory protection	6
Rough and finishing tools	5
Soldering and brazing and welding machinery and supplies	6
Special tooling fixtures	16
Viewing and observing instruments and accessories	4
Vision protection and accessories	3
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.